

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

SERIAL NO.: To Be Assigned

200.1125CON

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Ronald BURCH, et al.

FILING DATE:  
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To Be Assigned1017 U.S. PTO  
09/963232

09/26/01

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
M	AA	5 6 0 1 9 9 4	02/11/97	OENICK, ET AL.	435/7.93	435/188	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
							YES NO
M	AB	03 96 5 7 0 B 1	11/14/90	EP	G01N	35/53	N/A N/A
M	AC	03 86 2 7 5 A 2	09/12/90	EP	C12P	21/00	N/A N/A
M	AD	05 09 8 1 9 A 1	10/21/92	EP	C12P	21/08	N/A N/A
M	AE	WO 91 1 7 1 7 9	11/14/91	PCT	C07K	7/04	N/A N/A
M	AF	A 3 1 1 8 6 89	11/16/89	AUSTRALIAN	C12Q 001/68	G01N 033/53	N/A N/A
	AG						
	AH						

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M	AI	Benjamin Margolis and Richard A. Young; <i>Screening <math>\lambda</math> expression libraries with antibody and protein probes</i> ; pp. 1-14; 1995; DNA Cloning 2 Expression Systems A Practical Approach; IRL Press at Oxford University Press; New York.
M	AJ	Jamie K. Scott; <i>Identifying Lead Peptides From Epitope Libraries</i> ; pp. 1-27; 1995; <u>Biological Approaches to Rational Drug Design</u> ; CRC Press, Boca Raton.
M	AK	Kenneth Kaushansky; <i>The Hematopoietic Colony-Stimulating Factors</i> ; pp.51-72; 1995; <u>Biological Approaches to Rational Drug Design</u> ; CRC Press, Boca Raton.
M	AL	ABSTRACT - <i>Comparative sequence and immunochemical analyses of murine monoclonal anti-morphine antibodies</i> ; Miller A 3d; Glasel JA; Department of Biochemistry, University of Connecticut Health Center, Farmington 06032. <u>J. Mol Biol (ENGLAND)</u> October 20, 1989, 209 (4) pp. 763-778.
M	AM	ABSTRACT for WO 9514710 A1, published June 1, 1995.
M	AN	Abstract - <i>Binding of antimorphine anti-idiotypic antibodies to opiate receptors</i> . Ng DS, Isom GE; <u>Eur J. Pharmacol</u> 1984, June 15; 102(1): pp. 187-190

EXAMINER

DATE CONSIDERED

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U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL	BA	DOCUMENT NUMBER				DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE				
M	BA	4	7	9	2	4	4	6	12/20/88	KIM, ET AL.	424/85.8	424/94.1		
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M	BC	WO	95	1	8	9	6	9	7/13/95	PCT	G01N 33/53	33/68	N/A	N/A
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
M	BD	ARTICLE - <i>Anti-idiotypic antibodies: a useful alternative for studying the biochemical expression of <math>\mu/\delta</math> opioid binding sites in mammalian brain.</i> Karine Cucumel, Anny Cupo; <i>Journal of Neuroimmunology</i> 62 (1995) pp.183-195.												
M	BF	ARTICLE- Farid, N. R. , Briones-Urbina, R. & Islam, M.N. (1984) <i>Anti-idiotypic antibodies as probes for hormone-receptor interaction.</i> <i>Can. Biochem. Cell Biol.</i> 62, pp. 1225-1267.												
M	BF	ARTICLE- <i>A Sensitive Radioimmunoassay for the Detection of Monoclonal Anti-Idiotope Antibodies</i> ; Grant Morahan, <i>Journal of Immunology Methods</i> , 57 ( 1983); pp. 165-170.												
M	BG	ARTICLE- <i>The Immune Response Towards <math>\beta</math>-Adrenergic Ligands and Their Receptors, VI. Idiotypy of Monoclonal Anti-alprenolol Antibodies<sup>1</sup></i> ; Soulaïma Chamat, et al.; <i>Journal of Immunology</i> ; Vol. 136, No. 10, May 15, 1986												
M	BH	ABSTRACT- <i>Hydrophobic interactions and the design of receptor mimetic peptides</i> ; Martin-Moe SA, et al.; <i>Pept Res</i> 1995 March - April ;8(2): 70-6												
M	BI	ABSTRACT - <i>Determination of plicamycin in plasma by radioimmunoassay</i> ; Fang K; Koller CA, et al.; <i>Ther Drug Monit</i> 1992 June; 14(3):225-60												
M	BJ	ABSTRACT- <i>A simple 'free 3H-ligand' assay for rapid screening of hybridoma monoclonal antibodies against neurotransmitter analogs and anti-idiotypic antibodies.</i> Simmons RD; Linthicum DS; <i>J Neuroimmunol</i> 1986 May; 11(3):245-9.												
M	BK	ABSTRACT- <i>Mapping of the prekallikrein-binding site of human H-kininogen by ligand screening of lambda gt11 expression libraries. Mimicking of the predicted binding by anti-idiotypic antibodies</i> ; Vogel R; Kraufmann J, et al.; <i>J Biol Chem</i> 1990, July 25; 265(21):12494-502												
M	BL	ABSTRACT- <i>Routes to catalysis: structure of a catalytic antibody and comparison with its natural counterpart</i> ; Haynes MR, et al.; <i>Science</i> 1994, February 4; 263(5147) 646-52.												
M	BM	ABSTRACT- <i>Molecular basis of antigen mimicry by an anti-idiotope</i> ; Fields BA, et al.; <i>Nature</i> 1995 April 20; 374(6524): 739-42.												
M	BN	ABSTRACT- <i>Exploring the mimicry of polysaccharide antigens by anti-idiotypic antibodies. The crystallization, molecular replacement, and refinement to 2.8 Å resolution of an idiotope-anti-idiotope Fab complex and of the unliganded anti-idiotope Fab.</i> ; Evans SV, et al.; <i>J Mol Biol</i> 1994 September 2; 241(5): 691-705.												
EXAMINER <i>[Signature]</i>							DATE CONSIDERED <i>9/15/93</i>							
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U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NY	CA	4	8	5	9	5	6	7	4/21/87	TRAMONTANO, et al.	424/85	436/547	
NY	CB	5	1	9	9	8	6	5	3/2/93	SCHULTZ	435/108	435/188.5	

FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
														YES	NO
	CC														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
NY	CD	ABSTRACT- Radioimmunoassay of anticonvulsant drugs: phenytoin, phenobarbital, and primidone; Cook, C.E., et al., <u>Quant. Anal. Stud. Epilepsy</u> pp. 39-58, Raven, New York, 1976.
NY	CE	ABSTRACT- Determination and control of bimolecular interactions by using overlapping peptides for epitope mapping, vaccine discovery, drug design and diagnostic purposes. Gershoni, Jonathan M., Enshel, David; PCT Int. Appl. WO 9820169 A1.
NY	CJ	ABSTRACT- Epitope identification by polyclonal antibody from phage-displayed random peptide library; Yao, Zhi-Jian, et al.; <u>J. Protein Chem.</u> (1995), 14(3), 161-6.
NY	CG	ABSTRACT- Immunochemical simulation of ligand-receptor interactions. Communication II. Interaction of N-choline receptor recognition-modeling antibodies with dicholine and dihomocholine esters of dicarboxylic acids; Burkin, A.A., et al.; <u>Khim.-Farm. Zh.</u> (1992), 26(4), 26-9.
NY	CH	ABSTRACT for WO 8806592 A1, published September 7, 1988.
NY	CJ	ABSTRACT - Computer-aided molecular modeling of the binding site architecture for eight monoclonal antibodies that bind a high potency guanidinium sweeter.; Anchin JM, et al.; <u>J Mol Graph</u> 1994, December; 12(4):257-66, 289-90.
NY	CJ	ABSTRACT - One bead, one chemical compound: use of the selectide process for anticancer drug discovery.; Salon SE, et al.; <u>Acta Oncol</u> 1994; 33(2):127-31.
NY	CK	ABSTRACT- Improving the antigen affinity of antibody Fv-fragment by protein design.; Reichmann L, Weill M, Cavanagh J.; <u>J. Mol Biol</u> 1992, April 20;224(4):913-8.
NY	CL	ABSTRACT - Synthesis conformational properties, and antibody recognition of peptides containing beta-turn mimetics based on alpha-alkylproline derivatives.; Hinds MG, et al; <u>J Med Chem</u> 1991, June; 34(6):1777-89.
NY	CM	ABSTRACT- Monoclonal antibodies against a phencyclidine derivative are used to investigate protein-ligand interactions.; Casalotti SO, et al.; <u>J Pharmacol</u> 1993, October 15; 247(2):209-13.
NY	CN	ABSTRACT - Complementary peptides as antibody mimetics for protein purification and assay; Fassina G.; <u>Immunomethods</u> 1994, October ;5(2):121-9.

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 11/15/03
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M	DA 5 3 9 5 9 3 3	3/7/95	PONTICELLO, ET AL.	540/589	540/575							
M	DB 5 2 5 6 4 0 9	10/26/93	BLINCKO	424/85.8	424/88							
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M	DD 5 3 1 6 9 3 2	5/31/94	BIGNER, ET AL.	435/193	435/803							
M	DE 5 2 6 4 5 5 6	11/23/93	SIKORSKA, ET AL.	530/387.2	435/7.92							
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M	DG 5 4 6 8 6 5 1	11/21/95	SELF	436/548	435/7.1							
M	DH 5 5 7 8 4 5 7	11/26/96	BRUMMOND, ET AL.	435/7.93	435/188							
M	DI 5 5 4 1 0 7 0	7/30/96	KAUVAR	435/7.9	435/7.93							
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M	DK 4 2 3 3 0 9 2	5/23/89	GEYSEN	436/501	436/518							
M	DL 5 1 4 1 6 4 8	8/25/92	HYLARIDES, ET AL.	210/635	210/656							
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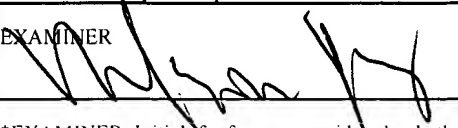
  

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION				
					YES	NO			
DO									

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
M	DP ABSTRACT - <i>Principles and pitfalls in designing site-directed peptide ligands.</i> ; Edmundson AB, et al.; <u>Proteins</u> 1993, July;16(3):246-67.
M	DQ ABSTRACT - <i>A shape- and chemistry-based docking method and its use in the design of HIV-1 protease inhibitors.</i> ; DesJarlais RL, Dixon JS; <u>J Comput Aided Mol Des</u> 1994, June;8(3):231-42.
M	DP ABSTRACT- <i>The broad utility of soluble peptide libraries for drug discovery.</i> ; Houghten RA; <u>Gene</u> 1993, December 27;137(1):7-11.








  

EXAMINER 	DATE CONSIDERED 10/16/93
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




  

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	EA	5	5	9	5	9	1	5	01/21/97	GEYSEN	436/518	436/528		
	EB	5	4	3	6	3	2	1	07/25/95	WRIGHT	530/388.25	530/388.4		
	EC	5	6	3	7	6	7	7	06/10/97	GREENE, ET AL.	530/333	530/300		
	ED	5	3	3	4	7	0	2	08/02/94	GREENE, ET AL.	530/323	530/317		
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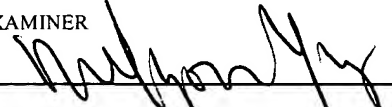
  

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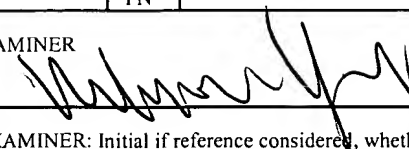
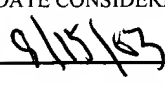
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	EI ARTICLE - <i>Antibody Directed Drug Design and Screening</i> ; Manfred E. Wolff and Edward T. Magglo; <u>Med Chem Res</u> (1991) 1: 101-108.
	EJ ARTICLE - <i>Bioactive Peptide Design Based on Antibody Structure</i> ; Joan M. Von Feldt, in "Biomedical Applications of Biotechnology, Volume 1 Biologically Active Peptides: Design, Synthesis, and Utilization"; TECHNOMIC Publishing Co., Inc., Lancaster, PA 1993.
	EK ARTICLE - <i>ELISA Screening of monoclonal antibodies to haptens: influence of the chemical structure of hapten-protein conjugates</i> ; N.P. Danilova; <u>Journal of Immunological Methods</u> 173 (1994) 111-117.
	EL ARTICLE - <i>Rational Design, Analysis, and Potential Utility of GM-CSF Antagonists</i> ; Cristina Monfardini, et al.; 1996; <u>Proceedings of the Association of American Physicians</u> , Volume 108, Number 6, pp. 420-431.
	EM ARTICLE - <i>Predicting Molecular Interactions and Inducible Complementarity: Fragment Docking of Fab-Peptide Complexes</i> ; Alan R. Friedman, et al.; <u>Proteins: Structure, Function, and Genetics</u> 20:15-24 (1994).
	EN ARTICLE - <i>From Protein Engineering to Drug Design, Imitating How Antibodies Do It</i> ; Maurizio Sollazo; <u>The Immunologist</u> 3(1) (1995) pp. 5-11.

EXAMINER 	DATE CONSIDERED 4/15/93
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M	FA	4	9	0	0	6	7	4	02/13/90	BENKOVIC, ET AL.	435/232	435/183		
M	FB	5	1	5	6	9	6	5	10/20/92	SCHOCHETMAN, ET AL.	435/188.5	435/240.27		
M	FC	5	3	8	2	5	1	3	01/17/95	LAM, ET AL.	435/7.1	435/4		
M	FD	5	2	2	5	5	3	3	07/06/93	RUTTER, ET AL.	530/334	530/333		
FOREIGN PATENT DOCUMENTS														
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													YES	NO
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
M	FF	ARTICLE - <i>Antibody as a surrogate receptor in the screening of a phage display library</i> ; Doug Roberts, et al.; <u>Gene</u> 128 (1993) pp. 67-69.												
M	FG	ARTICLE - <i>Recombinant Antibodies in Bioactive Peptide Design</i> ; Cristina Monfardini, et al.; <u>The Journal of Biological Chemistry</u> , (1995) Vol. 270, No. 12, Issue of March 12, pp. 6628-6638.												
M	FH	ARTICLE - <i>Monoclonal antibodies against a phencyclidine derivative are used to investigate protein-ligand interactions</i> ; Stefano O. Casalotti, et al.; <u>European Journal of Pharmacology - Molecular Pharmacology Section</u> , 247 (1993) 209-213.												
M	FK	ARTICLE - <i>New Perspectives on Catalytic Antibodies</i> ; Jeffrey W. Jacobs; <u>BioTechnology</u> Vol 9, March, 1991 pp. 258-262.												
M	FL	ARTICLE - <i>Molecular basis of antigen mimicry by an anti-idiotope</i> ; Barry A. Fields, et al.; <u>Nature</u> Vol. 374, pp. 739-742.												
M	FM	ARTICLE - <i>Tautomer-Specific Anti-(N-3-Substituted)-Adenine Antibodies: New Tools in Molecular Dosimetry and Epidemiology</i> ; Karl-Heinz Glösenkamp; <u>Angew. Chem. Int. Ed. Engl.</u> (1993) 32, No. 11 pp. 1640-1643.												
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